



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 22, 2016

Ana Rodriquez-Koster  
Lewis & Harrison, LLC.  
Agent for Sabre Oxidation Technologies, Inc.  
Sabre Oxidation Technologies, Inc.  
1891 New Scotland Rd.  
Slingerlands, NY 12159

Subject: Notification per PRN 98-10 – Notification of minor label changes  
Product Name: SABRECHLOR 25  
EPA Registration Number: 73139-1  
Application Date: November 28, 2016  
Decision Number: 524120

Dear Ms. Rodriquez-Koster:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Melanie Bolden at (703) 347-0165 or via email at [Bolden.Melanie@epa.gov](mailto:Bolden.Melanie@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "D. Fuller".

Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes eye and skin damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, and use only Neoprene gloves when handling. May be fatal if swallowed. Irritating to nose and throat. Do not breathe dust, vapors or spray mist. Remove and wash contaminated clothing immediately.

**Personal Protective Equipment (PPE):** For sanitization of food contact surfaces, handlers applying chlorine dioxide in an occupational setting must wear gloves.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organism. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Strong oxidizing agent. Mix or dilute with water only. Mixing with acids, or alcohol, or other chemicals may cause evolution of chlorine and chlorine dioxide gas mixture which is toxic and may be explosive. Combustible materials contaminated with SABRECHLOR 25 may burn rapidly. Keep handling areas and equipment clean and free of oils, greases, combustibles and dust. Do not contaminate product with garbage, dirt, organic matter, paint products, solvents, acids, vinegar, beverages, oils, pine oils, dirty rags or other foreign matter- Do not expose to hot surfaces, sparks or open flame.

Manufactured for:

Sabre Oxidation Technologies, Inc.  
2642 Marco Avenue  
Odessa, TX 79762

**NOTIFICATION**

73139-1

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

12/22/2016



**SABRECHLOR 25**

Sodium Chlorite Solution

For use in Generating Chlorine Dioxide to Control Microorganisms in Potable Water, Waste Water, Food Processing Plant Water, Once-Through Cooling System, General Industrial Process Water and Food Contact Surfaces

Active Ingredient:

Sodium Chlorite ..... 25%  
Other Ingredients:..... 75%  
Total ..... 100%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

<b>FIRST AID</b>	
<b>If in Eyes:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes, then continue rinsing eye. Remove contact lenses, if present after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.
<b>If on Skin or Clothing:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>If Swallowed:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>HOTLINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center at 1-800-222-1222 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN:</b> Probably mucosal damage may contraindicate the use of gastric lavage.	

EPA Reg. No. 73139-1

EPA Est No.

Net Contents: \_\_\_\_\_

Batch Code: \_\_\_\_\_

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

**METHOD OF APPLICATION**

Use SABRECHLOR 25 with a Chlorine Dioxide generator to generate an aqueous chlorine dioxide solution. These generators react with SABRECHLOR 25 with either chlorine or a chlorine solution and hydrochloric acid producing an aqueous solution of chlorine dioxide. This solution is then added at a point in the system to be treated which ensures uniform mixing. Alternatively, SABRECHLOR 25 can be used to form acidified sodium chlorite solutions by mixing the product with a Generally Recognized as Safe (GRAS) acid such as citric, phosphoric, hydrochloric or acetic acid. Do not apply SABRECHLOR 25 directly to system being treated. Follow all instructions in the Chlorine Dioxide Generator Manual carefully.

**APPLICATIONS**

**POTABLE WATER AND WASTEWATER DISINFECTION**

For most municipal and other potable water systems, a chlorine dioxide residual concentration up to 2.0 ppm is sufficient to provide adequate disinfection. The concentration of total residual oxidants (chlorine dioxide, chlorite and chlorate) should be monitored such that it does not exceed 1.0 ppm in the distribution system. For wastewater and sewage applications, residual chlorine dioxide concentrations up to 5.0 ppm are generally adequate.

**FOOD PROCESSING PLANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES FOOD PLANT PROCESS WATER**

For microbial control in typical food processing water systems, such as flume transport, chilled water systems, hydrocoolers and retort cooling water, apply SABRECHLOR 25 through a chlorine dioxide generation system to achieve a chlorine dioxide residual concentration ranging from 0.25 to 5.0 ppm.

Chlorine dioxide generated from SABRECHLOR 25 may also be used as a water sanitizer for fruit and vegetable washing and cut and peeled potato products without a subsequent potable water rinse requirement, provided that the concentration of total residual oxidants meet the residual limitations of  $\leq 1.0$  ppm.

Residual concentrations up to 5.0 ppm chlorine dioxide in process water may be used for washing whole uncut and unpeeled fruits and vegetables although a final potable water rinse is required if the residual exceeds 1 ppm. Potatoes, including those which have been peeled or cut, may be treated with sufficient chlorine dioxide to produce a residual concentration of up to 5.0 ppm provided this is followed by a potable water rinse. Fruits and vegetables treated with chlorine dioxide must be blanched, cooked, or canned before consumption or distribution in commerce.

#### **POULTRY PROCESSING WATER**

Use SABRECHLOR 25 to generate chlorine dioxide for use as an antimicrobial agent in water used in poultry processing in an amount not to exceed 3 ppm residual chlorine dioxide as determined by an appropriate method.

#### **SANITIZATION OF FOOD-CONTACT SURFACES IN FOOD-PROCESSING PLANTS, DAIRIES, BOTTLING PLANTS AND BREWERIES:**

Use SABRECHLOR 25 to generate chlorine dioxide for use as a terminal no-rinse sanitizer for food-contact surfaces, food-processing equipment and utensils. Prior to application, remove gross food particles and soil by a pre-flush, or pre-scrape and, when necessary, pre-soak treatment. Then thoroughly wash all equipment, surfaces and utensils with a suitable detergent or cleaner, followed by a potable water rinse. Dilute the chlorine dioxide solution generated from the chlorine dioxide generator with potable water to achieve a use-solution of at least 100 ppm but not more than 200 ppm available chlorine dioxide. A contact time of at least one minute is required for sanitization. Allow the sanitizing solution to thoroughly drain and dry from the equipment and surfaces cleared for use on food contact surfaces under the Federal Food, Drug and Cosmetic Act prior to recontact of the sanitized surface with food or feed items.

#### **ONCE-THROUGH COOLING WATER SYSTEMS**

Control of mollusks can be effectively accomplished using SABRECHLOR 25 as directed in commercial and industrial once-through cooling water systems. SABRECHLOR 25 may be fed on a continuous or slug basis depending on the degree of system fouling.

Slug Dose: Add 42 lbs. of chlorine dioxide per million gallons of water (5 ppm).

Continuous Dose: Add 2 to 16 lbs. of chlorine dioxide per million gallons of water (0.25 to 2 ppm).

#### **GENERAL INDUSTRIAL PROCESS WATER TREATMENT (OILFIELD INJECTION WATER, WHITE WATER PAPER MILL SYSTEMS, AND RECIRCULATING COOLING TOWERS)**

Use SABRECHLOR 25 to generate chlorine dioxide for the control of microbial slime in the above water systems. In order to achieve adequate control, the chlorine dioxide residual concentration should be between 0.25 and 5.0 ppm in process water or paper making and cooling systems.

#### **WATER FLOODS\***

Chlorine dioxide should be added to a water flood system at a point of uniform mixing. Add 5 to 1,000 ppm Chlorine dioxide to the system based on system loading. Repeat until control is achieved. Chlorine dioxide residual should be less than 5 ppm throughout the system.

#### **FRAC FLUID PROCESS WATER\***

Chlorine dioxide reduces bacterial contamination in frac water. Add Chlorine dioxide to or prior to the frac water storage tanks or directly into chemical blender or post blender prior to water being pumped down hole. In order to achieve adequate control, the chlorine dioxide residual concentration should be less than 5 ppm in frac water well flow back.

#### **FRAC PROCESS WATER USED FOR HYDRATION OF POLYMER/GUAR USED IN HYDRAULIC FRACTURING FLUIDS.\***

Chlorine dioxide controls microbial loading while increasing polymer hydration efficiency in fracturing fluids, polymers and gels used in oil and gas well stimulations. In order to achieve adequate control, the chlorine dioxide residual concentration should be less than 5 ppm in frac water well flow back.

#### **DRILLING, COMPLETION, AND WORKOVER FLUIDS\***

Chlorine dioxide should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank. Initial treatment: Add 50 to 1,000 ppm Chlorine dioxide to achieve a residual of less than 5 ppm return circulating

#### **OIL PRODUCTION, GAS PRODUCTION AND TRANSMISSION PIPELINES, PITS, TANKS AND SYSTEMS\***

Chlorine dioxide should be added directly to an oil production or transmission line. The application should be conducted to ensure adequate mixing of Chlorine dioxide. The chlorine dioxide concentration in the pipeline should be less than 5 ppm at the farthest points of the pipeline. Injections to the system should be on as needed to maintain control.

**\*Not approved for use in California.**

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Avoid exposure to high temperatures during storage. Store remote from other chemicals and combustible materials. Do not skid or slide drums.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **CONTAINER HANDLING:**

**[Note to Reviewer: For Non-refillable Containers:]**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. If recycling is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**[Note to Reviewer: For Refillable Containers:]**

Refillable container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty remaining contents from container for use according to use directions and triple rinse promptly after emptying. Offer for recycling, if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.